LISTING OF THE CLAIMS

The following listing of claims replaces all prior claim listing and versions in the application:

Claims 1-10 (Canceled)

Claim 11 (Currently Amended) A wheel comprising a hub with a circular outside periphery, a peripheral transmission part with a circular inside periphery around the hub, and an elastic part ~~arranged~~ positioned between the circular outside periphery of the hub and the circular inside periphery of the peripheral transmission part and configured to mechanically link said hub to said transmission part,

wherein in a first state of said elastic part, both of said hub and said transmission part ~~are able to~~ rotate about a ~~same~~ hub rotation axis within the wheel, ~~while~~ and

said elastic part is ~~adapted~~ positioned and configured to undergo a deformation within the wheel to ~~turn~~ change from said first state to a second state in which ~~the rotation axis of~~ said transmission part rotates about a second rotation axis within the wheel [[is]] shifted with respect to ~~that~~ the hub rotation axis [[of]] while said hub rotates about the hub rotation axis within the wheel, the second rotation axis being different from the hub rotation axis.

Claim 12 (Previously Presented) The wheel of claim 11, wherein said elastic part is comprised of elastic foam.

Claim 13 (Previously Presented) The wheel of claim 11, wherein said transmission part comprises a toothed member.

Claim 14 (Previously Presented) The wheel of claim 11, wherein said transmission part is star-shaped.

Claim 15 (Currently Amended) The wheel of claim 11, wherein said transmission part is ~~arranged~~ positioned to ~~create~~ serve as one of a friction bearing or a drive.

Claim 16 (Currently Amended) The wheel of claim 11, wherein said elastic part comprises elastic plates, each plate of the elastic plates linking said hub to said transmission part.

Claim 17 (Previously Presented) The wheel of claim 16, wherein said transmission part is star-shaped.

Claim 18 (Currently Amended) A mechanical system for driving a second wheel, the mechanical system comprising:

a first wheel ~~having~~ including a hub with a circular outside periphery and having a hub rotation axis within the first wheel, a peripheral transmission part positioned around the hub and having a circular inside periphery, and an elastic part ~~arranged~~ positioned between the circular outside periphery of the hub and the circular inside periphery of the peripheral transmission part and configured to mechanically link said hub to said transmission part[[,]] ~~the mechanical system further comprising;~~ and

one of a movable bridge or bar ~~arranged~~ positioned and configured so as to be ~~able to be~~ applied against said transmission part to bring the transmission part into contact with [[a]] the second wheel ~~configured and positioned to be driven through deformation of~~ and thereby to deform said elastic part,

wherein said elastic part ~~by which~~ is deformed such that said transmission part rotates about a second rotation axis within the first wheel ~~rotation axis within the first wheel is~~ shifted with respect to the hub rotation axis within the first wheel of said hub while said hub rotates about the hub rotation axis.

Claim 19 (Canceled)

Claim 20 (Currently Amended) A mechanical system comprising:

a jumping wheel including a hub with a circular outside periphery and having a hub rotation axis within the jumping wheel, a peripheral transmission part positioned around the hub and having a circular inside periphery, ~~and~~ the peripheral transmission part comprising teeth, and

an elastic part ~~arranged~~ positioned between the hub and the peripheral transmission part and configured to mechanically link said hub to said transmission part[[,]] ~~the mechanical system further comprising;~~ and

one of a standing bridge or a counterbore ~~against which said teeth are~~ positioned and configured to abut against the teeth of the peripheral transmission part, ~~with a rotational jump of~~

wherein said jumping wheel ~~occurring~~ is configured to undergo a rotational jump through deformation of said elastic part for allowing one of said teeth to pass by said bridge or said counterbore by shifting said transmission part to rotate about a second rotation axis within the jumping wheel shifted with respect to ~~that~~ the hub rotation axis of said hub within the jumping wheel while said hub rotates about the hub rotation axis.

Claim 21 (Previously Presented) The mechanical system of claim 20, wherein said jumping wheel is star-shaped.

Claim 22 (New) The wheel of claim 11, wherein a difference between a radius of said inside periphery of said transmission part and a radius of said outside periphery of said hub represents a substantial part of an overall radius of said wheel.

Claim 23 (New) The wheel of claim 22, wherein said elastic part is comprised of elastic foam.

Claim 24 (New) The wheel of claim 22, wherein said transmission part comprises a toothed member.

Claim 25 (New) The wheel of claim 22, wherein said transmission part is star-shaped.

Claim 26 (New) The wheel of claim 22, wherein said transmission part is positioned and configured to create one of a friction bearing or a drive.

Claim 27 (New) The wheel of claim 22, wherein said elastic part comprises elastic plates linking said hub to said transmission part.

Claim 28 (New) The wheel of claim 27, wherein said transmission part is star-shaped.

Claim 29 (New) The mechanical system of claim 18, wherein a difference between a radius of said inside periphery of said transmission part and a radius of said outside periphery of said hub represents a substantial part of an overall radius of said first wheel.

Claim 30 (New) The mechanical system of claim 20, wherein a difference between a radius of said inside periphery of said transmission part and a radius of said outside periphery of said hub represents a substantial part of an overall radius of said jumping wheel.